

AGL

GradeLight Pipe Lasers

Fit the Tightest Inverts...High Reliability Features



SANITARY & STORM SEWERS • PIPE JACKING • TUNNELING

AGL

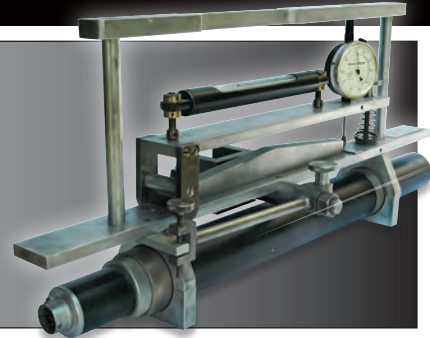
From The First Pipe Laser Four Decades Ago To Our Newest... Still The First Name In Lasers!

Built to Last

AGL is the Original Manufacturer of the pipe laser, and our four decades of experience benefit you in this newest design.

The durable housing uses die casts and extrusions for superior strength.

Inside, additional die cast parts coupled with stainless steel, brass, and aluminum bar stock add to its precision and reliability. These high quality materials minimize drift over the broad operating temperature ranges encountered.



Easy Alignment

High Visibility LED Line Pivot Point is a fast reference for centering. Easily seen from outside the manhole.



Grade Reference Points

on both sides make it easy to set elevation.

Large Display is Viewable from Outside Most Manholes

- **Line Indicator** shows the beam position relative to the adjustment range.
- **Status at-a-glance** shows self-leveling status, battery indicator, electronic level vial showing cross axis level position, and lock status of laser and remote.
- **Unique Dual Color Grade Display** Color changes to denote Positive or Negative Grade (to .001% increments) to minimize costly input errors.

Remote Control

(Optional with Above Ground Package)

Moves the beam left or right for line, and puts the laser in standby or locked modes. Press to quickly re-center adjustment range.

Press to do Line Check on the GL2700 and to turn the Rotating Laser ON for the GL3000.

SIMPLE Up Down

Left Right Operation

• **Enter Grade with a Rolling Counter or Digit Select Method.**

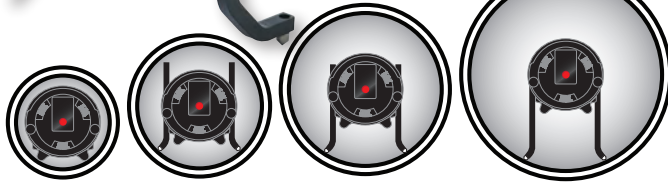
Press and hold a grade button for a few moments. After release, it will automatically increase (or decrease) until you press the key again to stop. Grade can also be entered by selecting the digits using the key.

- Press to reset to zero grade.
- Press to reset line adjust range.



SET UP...The Way You Work

In The Pipe



6" pipe
150mm

8" pipe
200mm

10" pipe
250mm

12" pipe
300mm

One Leg Set Covers Multiple Pipe Sizes

Unique slide legs adjust for 8", 10", and 12" pipe, as well as non-standard heights. Metric set for 200, 250, and 300mm. Built-in feet cover 6" (150mm) pipe.

Three-leg design is self-centering, providing stability when setting up on uneven surfaces, and allowing quick leveling-up.

Eliminates multiple small feet that can easily get lost, and attach holes that cross thread or fill up with jobsite crud.

Above Ground



Open Cut



Fine Height Adjust Trivet
Provides a stable set-up on any rocky or dirt surface. The hardened points can dig into a brick base.

Tight Pre-poured Inverts or Small Manholes

The Shortest Length
Less than 10.5" (265mm) long. Even the tightest 6" (150mm) 90° inverts pose no set-up problem.



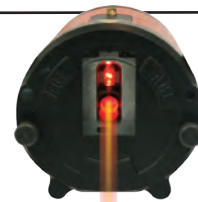
Flat Bottom Manholes

Use the Optional Clamp Handle
to attach to a trivet or to the rod and cross brace system.



AutoTarget for the GL3000

The laser scans to the left edge, using the built-in rotating laser.



The laser scans to the right edge, using the built-in rotating laser.



Auto Centers to the Target.

ALIGN...The Way You Work

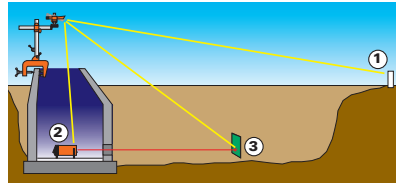


Manhole Mount

Unique Design lets you attach any alignment instrument including our Special Transit with back-sight capabilities.

Rotary crank allows easy movement to quickly get over a point.

Mount adapts to base sections and risers, and comes with an easy tilt mechanism to quickly plumb the instrument.



Rod & Crossbrace System

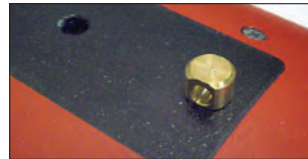
When used with the Special Transit, it makes an excellent one-person alignment system. Allows the laser to be set at any height on the graduated rod.

Adjustable manhole crossbrace length is 30-45" (76-137cm). Additional sections can be added.



Above Ground (GL2700)

Alignment Scope has a large field of view and a red filter for easy beam locating, even in bright sun.



Stringline

Stringline Hook on every laser provides a center pivot location for alignment.

GL2700 Features



Manual Alignment

The manual alignment function allows directing the laser by remote control to a reference rod outside the excavation without later having to set the grade-setting control again in the manhole.

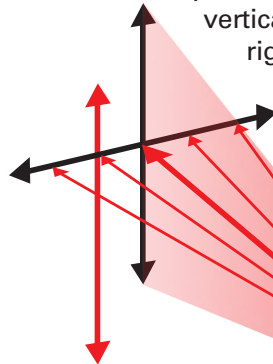
1. Set desired grade.
2. Direct laser beam to reference rod.
3. Return the beam to the desired setting and line by pressing the alignment button.

GL3000 Features

AutoTarget System

The GL3000 communicates with the AutoTarget using IR. Place the GL3000 and the AutoTarget in the pipe and activate the target. The rotating laser will automatically find the center of the AutoTarget.

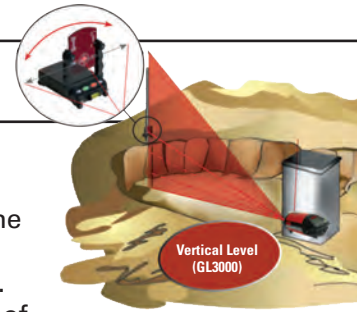
It's also possible to use a standard receiver of any rotating laser instead of the AutoTarget. After activating the vertical laser, it can be moved with the remote control left or right, into the correct direction for precise alignment.



The GL3000 vertical rotating beam will also indicate a vertical level exactly in the direction of the laser beam. This is useful in finding a range pole outside of the ditch for aligning a machine, hub stakes, fence posts, bridge columns, etc.

Automatic Dual Axis Compensation

The dual automatic system compensates the cross axis up to 6°.



VERSATILE...The Way You Work

Power Options

Li-Ion Rechargeable
Highest performance battery. Can be removed and charged separately.



Alkaline Pack
for when you forget to charge.

Optional 12V Cord

Charges while operating. Standard with GL3000.



Owner ID and Check Calibration

User Selectable feature lets you put in your company name and phone information as a theft deterrent to display at unit power-up. Lets you set the service interval desired -- up to 2000 hours.



GL3000 AutoTarget

The unique AutoTarget allows the user to align the pipe on second day set-up with ease and accuracy. Simply place the AutoTarget at the end of the last joint laid. Place the Pipe



Laser in the pipe with the correct grade and press the red align key on the AutoTarget. The built-in rotating laser will scan left, then right and then find the center of the target. After aligning, remove the AutoTarget and replace with a standard target and get to work. No Hassles, No Problems!

Unique Target

Magnetic base attaches to trench box side wall after pipe setting for better airflow that minimizes refraction.

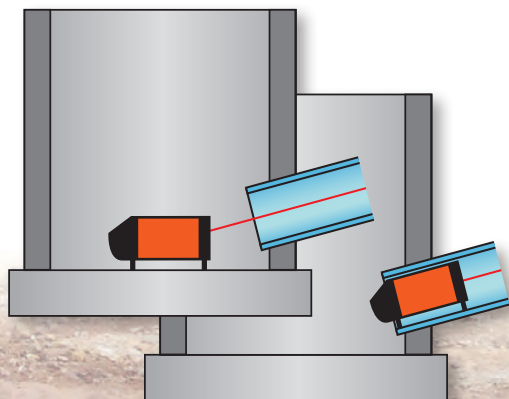
Base design mounts target panel at the front of the base, not in the center. This allows easier viewing at the front of the pipe. Accommodates multiple pipe sizes from 6" to 10" (150 to 250mm)



Self Levels Over Entire Grade Range

Wide Self-Leveling Range Means NO ROUGH LEVELING!

Allows you to set grade inside or outside the pipe from +40% to -10%.



Accidents Happen! This Laser Can Take It!





Specifications & Accessories



Heavy Duty Blower For Refraction Control
Minimizes laser drift for long pipe runs where there is more than a 20° F temperature difference between the trench top and bottom.

Above Ground Target

Special Reflective Coating helps enhance beam visibility when used in direct sunlight.



Large Pipe Leg Set
Tall Leg Set for 15-24" pipe; metric set for 375-600mm pipe.

GL3000 AutoTarget
Use to quickly and easily align for second day set-up.



Bracket for AutoTarget
Easily attaches the AutoTarget to a pole, grade rod, post or stake.



GRADELIGHT	GL3000	GL2700
Self-Leveling Range	+45% to -15%	
Grade Range	+40% to -10%	
Grade Entry	Rolling counter or digit select	
Grade Display	0.001%	
Azimuth Range	Total range: 20 ft. at 100 ft. (6m at 30m)	
Accuracy	± 1/16" at 100' (± 5mm at 100m; ± 10 arc sec.; ± .005%)	
Cross Axis Leveling	Automatic (6°)	Manual
Beam Type/Output	Visible laser diode, 635nm, < 5mW, Class 3R	
Environmental	IP68; nitrogen purged	
Power Supply	1) Rechargeable lithium ion battery pack 2) 110/230V AC converter (charge and run simultaneously) 3) Spare battery compartment for 4 "D" alkaline batteries 4) Std. 12V power cord Opt. 12V power cord	
Battery Life @ 32° F/0° C	40 hrs. Li-ion battery; 50 hrs. alkaline	
Charging Time	5 hrs. maximum	
Mounting	5/8 x 11 (female mounting thread)	
Operating Temperature	-4° to 122° F (-20° to +50° C)	
Storage Temperature	-4° to 140° F (-20° to +60° C)	
Size	Diameter: 5.5" (140mm). Length: <10.5" (265mm)	
Weight	7.6 lbs (3.5 kg) with alkaline battery	
Warranty	1 year (2 and 3 year optional warranties available)	
ROTATING LASER (GL3000 Only)		
Operating Range	600' (190m) with handheld receiver 500' (125m) with AutoTarget	
Detection Angle	20° (40' @ 100')	
Rotation Speed	1250 rpm	
Beam Type	Visible Laser Diode, 635nm, < 5mW, Class 3R	
Scan Length (Azimuth)	3° Automated w/ AutoTarget; 20' @ 100' w/ Remote	
REMOTE CONTROL		
Operating Range	600' (190m) front (through the pipe); 25' (7.6m) from rear	
Batteries	3 AA alkaline	
Battery Life	2,000 hrs (1 year)	
Dimensions	4.7" x 2.35" x 1.2" (119 x 60 x 30mm)	

Your AGL Dealer:



**CONSTRUCTION LASERS
& MACHINE CONTROL SYSTEMS**

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